PSE6004 Series

POE Switch USER GUIDE

6-Port fast Ethernet Switch 4-Port POE

Mini aluminium housing with easy-mount design
-30°C ~ +70°C operating temperature

Weight: 0.8KG

Listed Power Supply

POE Switch Datasheet
PSE6004 Series

Features:

- Mini aluminium housing supports wall mount and desk-top installation
- Unique thermal design, wide operating temperature range -30°C ~ 70°C
- MTBF up to 150K hours, designed for 24-hours-working surveillance system
- Maximum PoE output up to 20W/port
- Plug and play installation, non-professional can quickly install it

Overview

- PSE series PoE switches not only in price can be comparable to ordinary switch, and, compared to those only work in 0 °C ~50 °C environment, plastic shell household switches, they specifically for the network system needs uninterrupted work, such as the IPC security system.
- All models feature stable performance, come with dual surge protection circuits, so that the MTBF of these switches reaches 150K hours. Usually, these functions are ordinary business switches on the market do not have .
- The aluminum housing of PSE series switches designed to be very compact, so you can easily put them in a small power supply box. Therefore, they are ideally suited for small projects or home security systems.

Typical application :

- IP Camera
- VoIP Phone
- Security System
- AP
- Surveillance System
- NAS
**PSE6004 Series**

**Typical application 1:**
The switch is connected to a 90W-output power supply, and provides PoE signal through the network cables to PoE IP cameras.

**Typical application 2:**
The switch is driven by a power supply with 90W output, and delivers IEEE PoE+ signal to high power devices like IR IP cameras, up to max 20W per port.
## PSE6004 Series

### Ports & indicators assignment:

The PSE6004 series switches provide four PoE/PoE+ output RJ-45 ports for powered devices and two data uplink RJ-45 port for backbond network device.

### Specifications:

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<tr>
<th>Power over Ethernet Specifications:</th>
<th>Electrical Specifications:</th>
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<tr>
<td><strong>PoE Standard</strong></td>
<td>IEEE 802.3af &amp; IEEE 802.3at</td>
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<tr>
<td><strong>PoE Power Supply Type</strong></td>
<td>End-span &amp; Mid-span</td>
</tr>
<tr>
<td><strong>PoE Output Power</strong></td>
<td>Port 1~4: 48VDC, max. 34.2W/port</td>
</tr>
<tr>
<td><strong>Power Pins Assignment</strong></td>
<td>1/2, 3/6, or 4/5(+), 7/8(-)</td>
</tr>
<tr>
<td><strong>PoE Output Power Budget</strong></td>
<td>60W or 90W in total, depending on connected power supply</td>
</tr>
<tr>
<td><strong>PoE Ports Assignment</strong></td>
<td>Port 1~4: IEEE 802.3af (15.4W/port) or IEEE 802.3at (22W/port) PoE output;</td>
</tr>
<tr>
<td><strong>PoE/Data Extends Range</strong></td>
<td>Port 6: uplink, 150-meter data transmission 150 meters/490ft</td>
</tr>
<tr>
<td><strong>Input Voltage</strong></td>
<td>48VDC</td>
</tr>
<tr>
<td><strong>AC-DC Power Adapter</strong></td>
<td>Optional 60W or 90W, UL-listed, 90~264VAC to 48VDC, 50/60Hz, Auto-sensing</td>
</tr>
<tr>
<td><strong>Power Consumption (System on):</strong></td>
<td>2W</td>
</tr>
<tr>
<td><strong>Power Consumption (Full load):</strong></td>
<td>60W or 90W</td>
</tr>
<tr>
<td><strong>MTBF:</strong></td>
<td>More than 150K hours</td>
</tr>
<tr>
<td><strong>Surge Protection:</strong></td>
<td>PPTC active surge current limiting, Transient Voltage Suppressor (TVS)</td>
</tr>
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</table>
Network Specifications

• General Features
  – 4 x 10/100Mbps dual-speed RJ-45 Auto-MDI/MDI-X ports
  – 2 x 10/100Mbps dual-speed RJ-45 Auto-MDI/MDI-X uplink Port
  – 512K bits integrated shared packet memory
  – Shared on-chip memory-based switch fabric with true non-blocking switching performance

• Layer-2 Switching
  – Port-based VLAN
  – High performance lookup engine with support for up to 1,024
    MAC address entries with automatic learning and aging
  – Support a CPU header mode for accelerated router performance and wirespeed VLAN control

• Multicast
  – Port states & BPDU handling supports spanning tree
  – Automatic MDI/MDIX crossover for 100BASE-TX and 10BASE-T ports

• Security
  – Protected port security feature
  – Supports 802.1X implementation with port-based access control
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Standards Conformance
IEEE 802.3af & IEEE 802.3at Power over Ethernet
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX
IEEE 802.3x Flow Control and Back pressure
IEEE 802.1d Spanning Tree Protocol
IEEE 802.1Q VLAN Tagging
IEEE 802.1x Port Authentication Network Control
FCC Part 15 Class A, CE

Environmental Specifications
• **Operating**  
  Humidity max.: 95% RH(non-condensing), Temperature: -30°C to 70°C

• **Storage**  
  Humidity max.: 95% RH(non-condensing), Temperature: -40°C to 85°C

Physical Specifications

**Dimensions (W x D x H):** 160 x 78 x 29 mm (5.2 x 2.8 x 0.95 in.)

**Package Dimensions (W x D x H):** 208 x 175 x 87 mm (8.2x 6.9 x 3.4 in.)

**Gross Weight:** 0.30 kg (0.66 lbs) - only the switch;

  0.80 kg (1.76 lbs) - incl. 60W power adapter & AC cable;
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Included Accessories

UL-listed AC-48VDC Power Adapter  Support  AC Power Cord
( Optional 60W or 90W output models )

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<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
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<td>Power Indicator</td>
<td>Red LED ON</td>
<td>Power ON, Normal Power Supply</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Power OFF or Power failure</td>
</tr>
<tr>
<td>LINK indicator</td>
<td>Green LED ON</td>
<td>Connected port correctly</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Receiving or Sending data</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Connection failed or Abnormal link</td>
</tr>
<tr>
<td>Poe indicator:POE</td>
<td>Green LED ON</td>
<td>Connected standard PD, Normal Power Supply</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Short Circuit or Over Load</td>
</tr>
</tbody>
</table>

⚠️ Note

Remark: Internal Precision Component, for avoiding device damage please handles with case, avoiding violent vibration. Please contact us or local agency if damage or component loss by shipping, We will solve it ASAP.
Indicator: Support power source, network connection, port/rl45 port working status indication, It is convenient for engineer to parsing problem and monitoring working status.
Ethernet port: Self-Adaption RJ45 port, all port support Auto MDI MDIX, Plug and play. The working status
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can be estimated by indicator on front panel.